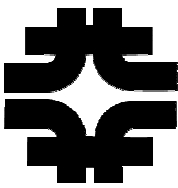


GSI Authentication For CDF

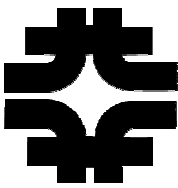
Ian Fisk
GDM Report
February 8, 2005



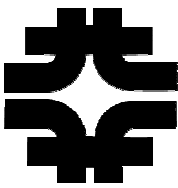
Project Drivers & Scope

- This really isn't a project yet it's an investigational effort
 - The basic issue is renewal of credentials
 - In the beginning the CAF sent around the entire Keytab file (encrypted), so that as jobs ran the results could be returned either directly to users or to storage they controlled
 - Job can sit in the queue for long periods of time, but at run time credentials can be created
 - Very nicely scalable system for returning results and it relies on a lot of existing infrastructure
 - More recently only the keytab file for the user who submitted the job is sent along with the job.
 - More secure
 - Very recently Matt Crawford suggested only sending the cache
 - This allows the credentials to be renewed 7 consecutive days
 - If job sits in the local queue for more than 7 days it's a problem, but it prevents needing to send the keytab file

Issues



- When the Italian developers in CDF began looking at migrating some of the CAF usage onto the LCG, there was a natural tendency to look at using Grid credentials
 - LCG nodes do not have kerberos installations, so the client software would have to be sent down. Not a show stopper
 - There was a desire to use a more commonly deployed authentication infrastructure
- SAM-Grid Sandboxes the user credentials so that they are available on the worker nodes
 - They are not currently renewed so they are submitted with lifetime of a few days
- There are technologies like myproxy that can enable this functionality.
- Currently there seems to be no compelling reason to switch the authentication method used in the dCache
 - Basically works, scales OK and re-uses a lot of FNAL infrastructure
 - Should work comfortably beside other authentication methods.



Effort

- UCSD has agreed to continue with CAF support here at FNAL in the form of a student until the summer of 2006
- Their post-doc Elliot, continues to work on CAF issues, but I believe he is expected to transition to physics
- Frank himself is moving to CMS work, but his group continues to play an important role.
- Significant INFN support for Grid and Infrastructure support.
 - Igor Sfiligoi will be here full time starting Feb 15th.
 - Additional Manpower in Italy for R&D and deployment
 - Naturally they are being encouraged to concentrate on issues relevant to LCG
 - Condor Glide-in is currently in development